Abstract of the Disclosure

Upon reception of a label request for a new flow, a path setup device searches label switched paths (LPSs) which have already been set up for comparison with a path contained in the label request. If there exists an LSP of the same path as that in the label request, the same label as that of the LSP is allocated. If no such LSP exists, a new label is allocated. An LSP is set up based on the allocated label.